



Panasonic
ideas for life



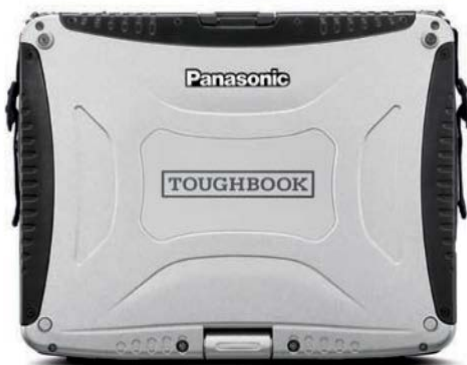
Panasonic recommends Windows® 7.

TOUGHBOOK 19

- Convertible Notebook to Tablet Design
- Sunlight-viewable Up to 6000 Nit in Direct Sunlight
- Full Magnesium Alloy Case with Hand Strap
- Shock-mounted Flex-connect Hard Drive with Quick-release
- Optional 4G LTE or 3G Gobi™ Mobile Broadband

Rugged, lightweight, wireless and convertible.

If you want a fully-rugged, lightweight, wireless laptop that converts from a powerful notebook PC to a convenient tablet PC with one quick swivel, then the Toughbook® 19 is for you. The first tablet PC to be certified¹ for MIL-STD-810G and IP65, it features a full magnesium alloy case capable of withstanding a 6-foot drop¹—ideal for working in challenging environments and mission-critical situations. At only five pounds, it's good on the go with a hand strap, Wi-Fi, a brilliant LED screen capable of up to 6000 nit in direct sunlight, and optional embedded 4G LTE or 3G Gobi™ mobile broadband.



IP65

**6-FOOT
DROP RATING**

**MIL-STD-
810G**

The first
MIL-STD-810G
certified tablet PC¹

1-866-278-4433
www.ruggednotebooks.com

TOUGHBOOK

SOLUTIONS FOR BUSINESS

Panasonic recommends Windows® 7.



DURABILITY

- MIL-STD-810G certified (6' drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, explosive atmosphere)¹
- MIL-STD-461F certified¹
- IP65 certified sealed all-weather design¹
- Optional class I division 2, groups ABCD certified model
- Hard drive heater
- Full magnesium alloy case with hand strap
- Shock-mounted flex-connect hard drive with quick-release
- Pre-installed replaceable screen film for LCD protection

SOFTWARE

- Genuine Windows® 7 Professional 32-bit² or Genuine Windows® 7 Professional 64-bit²
- Panasonic Utilities, Panasonic Dashboard, Recovery Partition

CPU³

- Intel® Core™ i5-3320M vPro™ Processor
 - 2.6GHz with Turbo Boost up to 3.3GHz
 - Intel® Smart Cache 3MB

STORAGE & MEMORY

- 4GB SDRAM (DDR3L-1333MHz) standard, expandable to 8GB^{4,5}
- 500GB 7200rpm hard drive (shock-mounted flex-connect with quick-release)⁵
 - Optional 128GB and 256GB reinforced flex-connect solid state drives (SSD)⁵

DISPLAY

- 10.1" XGA sunlight-viewable LED 1024 x 768 (touchscreen or optional dual touch)
 - TransfectivePlus and Panasonic CircuLumin™ technology
 - 1-6000 nit (depending on lighting conditions and settings)⁶
 - AR, AG and circular polarizer
- Intel® HD Graphics 4000 video controller, max. 1544MB shared VRAM with 32-bit⁴
- External video support up to 1280 x 1024 at 16.7 million colors
- Concealed mode (configurable)

AUDIO

- Intel® high-definition audio compliant
- Integrated speaker
- Keyboard volume and mute controls

KEYBOARD & INPUT

- Touchscreen or dual touch (touchscreen and digitizer models)
- Integrated stylus holder
- 82-key with dedicated Windows® key
- Pressure-sensitive touchpad with vertical scrolling support

EXPANSION SLOTS

- PC card type II
- SD card (SDXC)
- ExpressCard/54

INTERFACE

- Docking connector Dedicated 100-pin
- VGA D-sub 15-pin
- Headphones/speaker Mini-jack stereo
- Microphone/line in Mini-jack stereo
- Serial D-sub 9-pin
- Ext. antenna conn. (x2) 50 ohm coaxial
- USB 3.0 (x1), USB 2.0 (x1) 4-pin
- IEEE 1394a (FireWire) 4-pin
- 10/100/1000 Ethernet RJ-45
- 56K Modem RJ-11

WIRELESS

- Optional integrated 4G LTE mobile broadband
- Optional integrated 3G Gobi™ 3000 mobile broadband
- Intel® Centrino® Advanced-N 6235 802.11a/b/g/n
- Bluetooth® v4.0 + EDR (Class 1)
- Security
 - Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
 - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES
- Dual high-gain antenna pass-through
- Slide on/off switch

POWER SUPPLY

- Lithium ion battery pack (10.65V, typical 5700mAh, minimum 5400mAh)
- Battery operation: 10 hours (touchscreen), 9.5 hours (dual touch)⁷
- Battery charging time: 3.5 hours⁷
- AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply

POWER MANAGEMENT

- Suspend/Resume Function, Hibernation, Standby, ACPI BIOS

SECURITY FEATURES

- Password Security: Supervisor, User, Hard Disk Lock
- Kensington cable lock slot
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS⁸
- Intel® Anti-Theft Technology
- Optional fingerprint reader
- Optional SmartCard reader

WARRANTY

- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT

- 8.5"(L) x 10.7"(W) x 1.9"(H)
- 5.1 lbs.



INTEGRATED OPTIONS⁹

- 4G LTE mobile broadband
- 3G Gobi™ 3000 mobile broadband (EV-DO Rev. A, HSPA)
- 3MP camera with auto focus and dual LED light¹⁰
- GPS receiver
- Backlit keyboard – sealed rubber or plastic emissive
- SmartCard reader
- Fingerprint reader
- HDD and battery lock

SELECT ACCESSORIES⁹

- AC Adapter (3-prong) CF-AA6503A2M
- Lithium Ion Battery Pack CF-VZSU48U
- Battery Charger CF-VCBTB2W
- LIND 5-Bay Battery Charger PACH518-1858-P
- LIND Car Adapter 120W CF-LNDDC120
- LIND Car/AC Adapter 90W (with USB port) CF-LNDACDC90
- LIND Car Adapter 90W MIL-STD CF-LNDMLDC90
- ToughMate ComUniversal Jr. Carrying Case TBCCOMUJR-P
- ToughMate Always-on 19 Case TBC19AOCSP
- ToughMate 19 "X" Hand Strap TBC19XSTP-P
- ToughMate Shoulder Strap TBC19SS-P
- LaCie External USB Multi Drive TT-DVDRW8XL91U
- Memory Cards
 - 4GB DDR3 CF-WMBA1104G
 - Desktop Dock CF-VEB191AU
 - Vehicle Dock
 - No pass-through See Website
 - Dual pass-through CF-WEB194AC
 - Zebra 4" Bluetooth Printer PZ420BT
 - PDRC Backlit Keyboard CF-VKBL03AM
 - iKey Keyboards See Website
 - Dual Touch Replacement Stylus (for Digitizer) CF-VNP012U
 - Touchscreen Replacement Stylus CF-VNP003U
 - Tether CF-VNT002U
 - LCD Protector Film for Touchscreen and Dual Touch CF-VPF11U

Please consult your reseller or Panasonic representative before purchasing.

¹Tested by national independent third party lab following MIL-STD-810G Method 516.6 Procedure IV for transit drop test and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP65.

²A full set of Windows XP drivers are available at panasonic.com/toughbook/support.

³An Intel Core i7 processor is also available.

⁴Total usable memory will be less depending upon actual system configuration. Maximum of 4GB of memory when equipped with camera. Windows 7 64-bit max. VRAM is 1696MB.

⁵1GB = 1,000,000,000 bytes.

⁶1000 nit without ambient light assistance. Up to 6000 nit in clear, sunny conditions under direct sunlight.

⁷Battery performance features such as charge time and life span can vary according to the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors, including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery testing results from MobileMark 2007.

⁸Requires software and activation to enable theft protection.

⁹Accessories and Integrated Options may vary depending on your notebook configuration. Visit Panasonic website for more accessories and details.

¹⁰Camera replaces the second memory slot located on the bottom of the PC.

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TOUGHBOOK

SOLUTIONS FOR BUSINESS

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